

What is claimed is:

1 ~~sub A1~~ 1. An imager comprising:
2 an array of pixel sensors, each pixel sensor to indicate at least two
3 different primary color components of an image; and
4 for each pixel sensor, at least two storage locations located in the array to
5 store the indications from the pixel sensor.

1 2. The imager of claim 1, further comprising:
2 for each pixel sensor, circuitry to, during a first integration interval, couple
3 the pixel sensor to one of the associated storage locations to store one of the
4 indications from the sensor and, during a second integration interval, couple the
5 pixel sensor to another one of the storage locations to store another one of the
6 indications from the sensor.

1 ~~sub B1~~ 3. The imager of claim 2, wherein the circuitry includes an analog-to-digital
2 converter to convert the indications from the pixel sensor into a digital format

DI 1 4. The imager of claim 1, wherein the indications comprise analog signals.

1 5. The imager of claim 1, wherein the indications comprise digital signals.

1 *Sub A2* 6. A camera comprising:
 2 an array of pixel sensors, each pixel sensor to indicate at least two color
 3 components of an image;
 4 a programmable color filter substantially covering the array;
 5 a controller to control the color filter to cause the pixel sensors to indicate
 6 the color components one at a time; and
 7 for each pixel sensor, at least two storage locations located in the array to
 8 store the indications from the pixel sensor.

1 7. The camera of claim 6, further comprising:
 2 for each pixel sensor, circuitry to, during a first integration interval, couple
 3 the pixel sensor to one of the associated storage locations to store one of the
 4 indications from the sensor and, during a second integration interval, couple the
 5 pixel sensor to another one of the storage locations to store another one of the
 6 indications from the sensor.

1 *Sub B2* 8. The camera of claim 7, wherein the circuitry includes an analog-to-digital
 2 converter to convert the indications from the pixel sensor into a digital format.

1 *D1* 9. The camera of claim 6, wherein the indications comprise analog signals.

1 10. The camera of claim 6, wherein the indications comprise digital signals.

- 1 11. A method for use with an imager, comprising:
2 during a first integration interval, storing an indication of a first primary
3 color component of an image in a pixel sensor array; and
4 during a second integration interval, storing an indication of a second
5 primary color component of the image in the array, the second primary color
6 component being different from the first primary color component.
- 1 12. The method of claim 11, further comprising:
2 retrieving the indications of the first and second primary color
3 components from the array after the expiration of the first and second integration
4 intervals.
- 1 13. The method of claim 12, wherein the retrieving further includes:
2 retrieving an indication of a third primary color component of the image
3 from the array after the expiration of the first and second integration intervals, the
4 third primary color being different from the first and second primary color
5 components.
- 1 14. The method of claim 11, further comprising:
2 during a third integration interval, storing an indication of a third primary
3 color component, the third primary color component being different from the first
4 and second primary color components.
- 1 15. The method of claim 11, wherein the act of storing the indication of the
2 first primary color component comprises storing a digital signal.

1 16. The method of claim 11, wherein the act of storing the indication of the
2 first primary color component comprises storing an analog signal.

1 17. The method of claim 11, further comprising:
2 programming a color filter to allow light including the first primary color
3 component to strike the pixel sensors during the first integration interval and
4 allow light including the second primary color component to strike the pixel
5 sensors during the second integration interval.

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